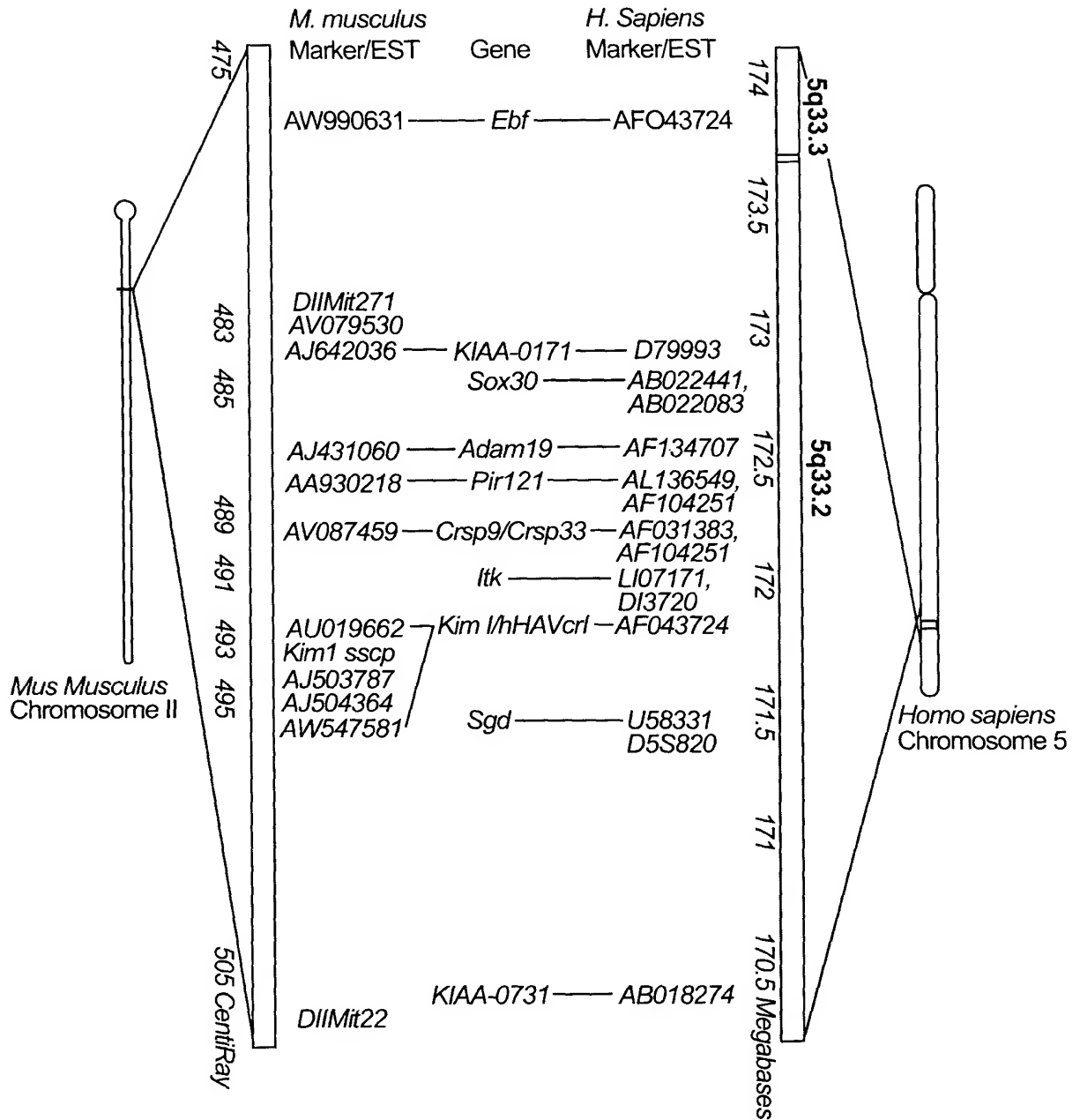


FIG. 4



Δ

Mouse TIM-1	M-NQIQVFISGLILLPGVDSYVEVKGVGHVPVTLPCVSYIYR-G-TITTCWGRGQCSESAQNILITWNGHRVTYQKSSRYNLKGHISEQDVSLTIEN
Mouse TIM-2	M-NQIQVFISGLILLPGAVESHTAMQGLAGHPVTLPCIVSTIHL-GGIVPMCWGLGECRHSYCIIRSLIWTNGVTVTHQNSRYOLKGNLSECNVSLTIEN
Mouse a2-11	M-FSGLTLNCVLLIQLLIARSLEIDGKVEVGKNAYLPCSFVFLPTSGTIVPMCWGKGFCEWSQCNELERTDERNVTYQKSSRYOLKGLNKRGDVSLTIEN
Mouse TIM-1	SVESDSGLNCRVEIPGMFNQKVFESLQVKEPIPTPPPTRLTTRPTATGRPTTISTRSTHVPTSIKRVSTSTPTPTSTHTMTHKPEPTTFCPEHPTTAETV
Mouse TIM-2	TWVGDCPYCCVVEIPCAHFH-VDMYLEVKEPEISTSPPTPT-----ATGRPTTISTRSTHVPTSTRVSTSTPTFAHTEINJKPEATTFYPCQTTAEVT
Mouse a2-11	VTLDDHGHTKCRITQFPGIMNDKKLELKLDIK-----AAKVTPAQTAHG-----DSTTASERTLTTERN
Mouse TIM-1	GIPSHTEPDWNGVTSSCDIWSNHTETAPPKPKQKNPTKGFYVGICIAA-LILILIMSTVAITRYIIMKRKSASLSWAFRVSKTEALQANVWVHSRAED
Mouse TIM-2	ETLPSTPADWHTVTSSDDPDNDNTEMLPPKPKQKNLANKGFVVGISIAA-LILILIMLSIMVITRYIMKRKSESLSFVAFPISKIGASPKVWVERTRCED
Mouse a2-11	GSETQILVTTHNNGTKISTWADIK-----DSGETIRTAIHGCVGSAGCTPLAUIIGVLILKWYSCKKMLSSLSLITLANLPPGGLANAGAVIRSEF
Mouse TIM-1	NIYIVEDRB-----
Mouse TIM-2	QVNIIEDTPPEES-----
Mouse a2-11	NIYITTEENVVEVENSNEYCYVNSQQPS

FIG. 5C

TIM-1 Variants

1	MNQIQVFISGLILLPGAVDSYVEVKGVPVTL	PCTYSTYRGITTCWGRGQCPSSACQNTLIW	TNGHRVTYQKSSRYNLKGHI	SEGDVSLTIENSVE	HBA
1	MNQIQVFISGLILLPGVDSYVEVKGVPVTL	PCTYSTYRGITTCWGRGQCPSSACQNTLIW	TNGHRVTYQKSSRYNLKGHI	SEGDVSLTIENSVE	BALB/c
100	SDSGLYCCRVEIPGWFNQKVTFSLQVKPEI	PTRPPTTRPTTRPTATGRPTTISTRSTHVPT	STRVSTSTPPTSTHTWTHKPEPTTFC	-----	HBA
100	SDSGLYCCRVEIPGWFNQKVTFSLQVKPEI	PTRPPTTRPTTRPTATGRPTTISTRSTHVPT	STRVSTSTPPTSTHTWTHKPEPTTFC	PHETTAEVTGIP	BALB/c
200	PTDMNGVTSSGDTWSNHTEAIPPGKPQKNPT	KGFYVGICIAALLLLLVSTVAITRYILMKRKSAS	LSVVAFRVSKIEALQNAAVVHSRAEDNIYI		HBA
200	SHPTDMNGVTSSGDTWSNHTEAIPPGKPQKNPT	KGFYVGICIAALLLLLVSTVAITRYILMKRKSAS	LSVVAFRVSKIEALQNAAVVHSRAEDNIYI		BALB/c
300	VEDRP	HBA			
300	VEDRP	BALB/c			

A2-11/TIM-3 Variants

1	MFSGLTLCVLLLLQLLLARSLENANVFEV	GKNAYLPCSYTIS	TPGALVPM	CMWKGFCPWSQCTNELLRTDERNVTYQKSSRYQLKGD	LKNGDVSLI	IKN	HBA
1	MFSGLTLCVLLLLQLLLARSLE	DGKKVEV	GKNAYLPCSYTIS	TPGALVPM	CMWKGFCPWSQCTNELLRTDERNVTYQKSSRYQLKGD	LKNGDVSLI	BALB/c
100	VTLDDHGTCCRIQFPGLMNDKKLEUKLDI	KAAKVTPAQT	AHGDSTTASPR	TLTTERNGSETQTLVTLHNNNGTKISTWADEIKDSGETIR	TAIHIGVGV		HBA
100	VTLDDHGTCCRIQFPGLMNDKKLEUKLDI	KAAKVTPAQT	AHGDSTTASPR	TLTTERNGSETQTLVTLHNNNGTKISTWADEIKDSGETIR	TAIHIGVGV		BALB/c
200	SAGLTALALIIGVLLIKWYSCKKKLSLSL	ITLANLPPGGLANAGAVRIRSEENIY	TIENVYEVENSNEYCYVNSQQPS				HBA
200	SAGLTALALIIGVLLIKWYSCKKKLSLSL	ITLANLPPGGLANAGAVRIRSEENIY	TIENVYEVENSNEYCYVNSQQPS				BALB/c

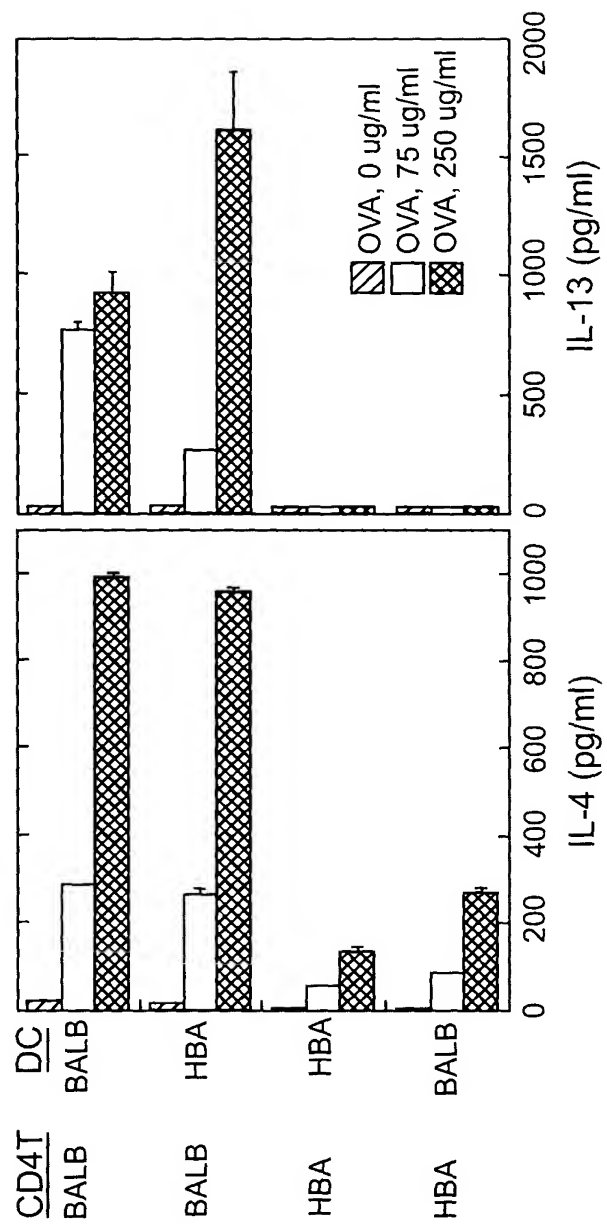


FIG. 6

FIG. 7

[illegible]

FIG. 8

		<u>Frequency</u>
NM_012206	MHPQVVILSLHLADSVAGSVKVGGEAGPSVTLPCHYSGAVTSMCWNRGSCSLFTCQNGI VWTNGTHV TYRKDTRY	
NM_012206	KLGDLSRRDVSLTIENTAVSDSGVYCCRVEHRGWFNDMKITVSLEIVP[PKVTTTP]IVTTVP[P]IVTTTVRTSTTVPTTT	.05
		A
NM_012206	TVP-----TTTVPTTMS[P]PTTTTVPTTMTVSTTTISVPTTTTSIP[TTTSVPVTTTVSTFVPPMPLPRQNHEPVATSPS	.65
1	MTTTP	.05
2	A	.05
3	V	.40
4	A	.65
5		
		F
NM_012206	SPQPAETHPTTLQGAIRREPTSSPLYSYTTDGN[DTVTSSDGLWNNNQ]QLFLEHSLLTANTT[KGIYAGVCISVLVL	.02
6		D

FIG. 9

